

## FCBC / SMPS POWER PLANT MODEL DY31400E(48V/75A)



MODEL DY 31400E is a Modular Power System, which uses 3 nos. Hot-Pluggable DY 1400E Rectifier Modules of 1400Watts.

### ELECTRICAL SPECIFICATIONS

#### INPUT SPECIFICATIONS

Nominal Voltage	230 VAC, Single Phase
Voltage Range	150 - 275 VAC
Switching Frequency	47 -53 Hz
Input Current	<30A RMS
Power Factor	0.98 MIN.(50% Load to 100% Load)
Efficiency	>90%
Dielectric Strength	1.5 KV AC (I/P to O/P & Case)

#### OUTPUT SPECIFICATIONS

Nominal Voltage	54 VDC
Output Voltage Span Adjustment	48V - 56V
Output Current	3 X 25A (MAX.)
Power	3 X 1400W (MAX.)
Net Regulation	±0.5V
Ripple	< 300mV p-p
Psophometric	< 4mV
Audible Noise	< 50 dBA
Battery Current Limit	0.1AH of Battery
Battery Protection	LVD (43- 44V)

### SPECIAL FEATURES

- ❖ Modular Systems, easy for Maintenance
- ❖ Hot Plug-In Modules
- ❖ Wide Input Voltage Range
- ❖ Active Current Sharing
- ❖ Potential Free Contacts for Remote Fault Annunciation
- ❖ Power Factor Correction
- ❖ Input High Voltage Disconnect (HVD) & Battery Low Voltage Disconnect(LVD)
- ❖ Analog Controller
- ❖ Common O/P Voltage Control
- ❖ Battery Current Limiting for each battery path (presettable to suit battery Capacity).

#### MONITORING LCD DISPLAY

1. AC out of range.	8. System Overload
2. DC Low / High	9. System Voltage
3. AC ON Battery discharged	10. System Current
4. Battery temp. compensation fail	11. Battery Current
5. Battery disconnect	12. Load Current
6. MCB Trip	13. AC Voltage
7. Module Fail (Major alarm for 2 modules, minor for 1 module fail)	

#### FUNCTIONAL LED'S

1. AC Available
2. System on Float
3. System on Charge
4. Alarm

#### MECHANICAL

Weight	Approx. 60 Kgs
Dimensions	522 (H) x 642 (W) x 525 (D) mm
Enclosure	IP-41, CRC Sheet, Powder coated
Input Connection	Close Case, Tabletop Mounting
Output Connection	Wago Terminal
	Busbar Terminal

#### ENVIRONMENT

Operating Temperature	0° to 50° C
Storage Temperature	-10° C to +70° C
Cooling	Convection
Humidity	< 95% RH

### Specification No - FCBC/ DY 31400E- (Rev. 0)

\* Enhancement to the above specifications & Customizing can be considered on request.

\* Specifications may or can be altered without notice as per company's continuous improvement Program.